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LETTER REPORT
FOR
MOSCHIANO PLATING COMPANY
CHICAGO, COOK COUNTY, ILLINOIS
TDD: S05-9709-002
PAN: 7P0201RA

1.1
1/20/98

January 20, 1998

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Emergency and Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by: Damon M Sinars
Damon Sinars, START Project Manager

Date: 1/20/98

Reviewed by: P.M. Zwilling
P.M. Zwilling, Assistant START Program Manager

Date: 1/20/98

Approved by: Thomas Kouris
Thomas Kouris, START Program Manager

Date: 1/20/98



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January 20, 1998

Ms. Gail Nabasny
Project Officer
U.S. Environmental Protection Agency
Emergency Enforcement and Response Branch
77 West Jackson Boulevard, 5th Floor
Chicago, IL 60604-3690

Re: Moschiano Plating
Chicago, Cook County, Illinois
TDD: S05-9709-002
PAN: 7P0201RA

Dear Ms. Nabasny:

The United States Environmental Protection Agency (U.S. EPA) tasked the Ecology and Environment, Inc. (E & E), Superfund Technical Assessment and Response Team (START), under Technical Direction Document (TDD) S05-9709-002, to provide removal oversight and technical support at the Moschiano Plating Company (MPC) site in Chicago, Illinois.

The MPC site is located at 2808 West Lake Street, Chicago, Cook County, Illinois (latitude 41°53.204N and longitude 87°41.896W) in a low income/high minority area of mixed industrial and residential development (Attachment A, Figure 1). The property is bordered on the north by a residential area, on the south by Lake Street, on the west by Mozart Street, and on the east by a residential building. Local businesses are located along the south side of Lake Street and there is a Chicago Transit Authority (CTA) train platform located directly above Lake Street.

The MPC site was incorporated in 1972 and moved to the Lake Street location in 1979. Electroplating operations included nickel, copper, brass, and chromium plating. Since the owner of the facility passed away in April 1997, site operations have been inactive.

The Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) documented that the MPC site had a long history of discharge violations. On August 1, 1997, the site was referred to U.S. EPA by the City of Chicago Department of the Environment (CDOE) after a portion of the roof collapsed. CDOE was concerned that flooding in the building could lead to off-site migration of hazardous substances. U.S. EPA and START, along with representatives of the city, met at the MPC site to conduct an emergency response to determine appropriate measures to secure the site. On August 8, 1997, U.S. EPA and START performed a site assessment at the MPC site. Analytical results of samples collected by START indicated toxic, corrosive, flammable, and reactive materials on-site. Shortly thereafter, all utilities were turned off and 24-hour site security was established.

Security remained on site through the end of the project.

On September 26, 1997, U.S. EPA, START, and the Emergency Response Contractor Service (ERCS) conducted a site walkthrough, and on October 3, 1997, mobilization of equipment to site was initiated for the removal action. On October 13, 1997, U.S. EPA, START, and ERCS mobilized to site. During the following two weeks, activities at the site included: the implementation of a site health and safety plan; staging and sampling the approximately 155 tanks and drums; staging of approximately 200 small containers (5 gallons or less); initiation of hazard categorization; general site cleanup and plating line disassembly; hazardous and nonhazardous debris began to be shipped off site in rolloff boxes; and disposal options and price quotations were researched.

On October 27, 1997, a fire started inside the building during work hours. Emergency procedures were initiated, including notification of the Chicago Fire Department and Hazmat Team. The U.S. EPA On-Scene Coordinator and START worked in coordination with fire department personnel and provided them with hazard and waste location information. In addition, START conducted air monitoring. Results indicated brief periods of elevated airborne particulate levels, but no public health threats throughout the incident. As a precaution, residents of a nearby apartment complex were evacuated. The fire was extinguished and no serious injuries occurred during the incident. The exact cause of the fire is not known.

Only the east side of the building was affected by the fire. The roof and interior structures of the burn area were destroyed. The plating tanks and approximately 95% of the drums remained intact as well as their contents. During the fire, the city sanitary district determined that the fire water exiting the building was suitable for the wastewater treatment plant. Refer to Attachment B for photodocumentation of site activities.

ERCS mobilized a second subcontractor the night of the fire. The additional personnel and heavy equipment moved debris, disassembled the plating lines, and segregated hazardous and nonhazardous debris. In the days following the fire, all remaining tanks, drums, and containers were re-evaluated and characterized as necessary and hazard categorization was completed. All plating solutions were transferred to temporary holding tanks until disposal could be arranged. Fire water was removed from the floor using vacuum trucks and was staged with the decontamination water in tanks on site. The drummed material was either bulked into the temporary holding tanks or overpacked for later off site disposal. Solid wastes from the plating tanks were bulked into rolloff boxes or drums as appropriate. Disposal operations were completed on November 7, 1997 (Attachment C).

During the final days of the removal action, the concrete flooring in the main processing room was decontaminated with a pressure washer. In addition, the holding tanks and equipment were decontaminated. On November 7, 1997, personnel and remaining equipment were demobilized from site. Removal and proper disposal of uncontrolled hazardous substances that were abandoned at the MPC site have eliminated the public health threat associated with such materials.

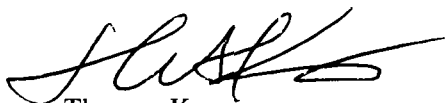
All appropriate agencies were notified of the completion of the project. An emergency permit was granted to the City of Chicago to demolish the building, which occurred on November 28, 1997. If deemed appropriate, U.S. EPA will collect soil samples from beneath the concrete floor to determine whether soil contamination exists due to past plating operations.

This Letter Report completes the requirements of this TDD. If you have any questions or comments regarding this report, please contact me at (312) 578-9243.

Sincerely,



Damon M. Sinars
START Project Manager



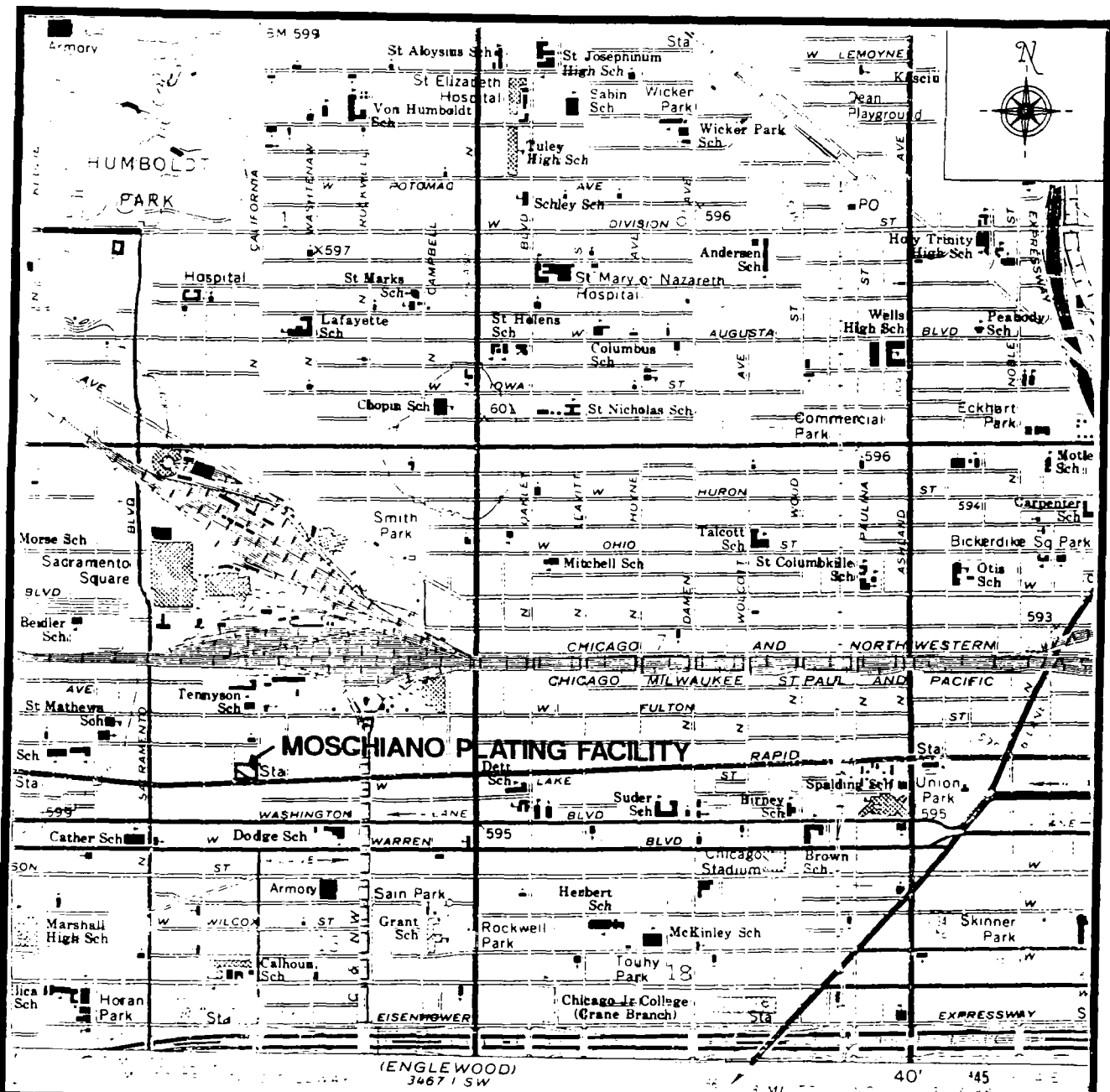
Thomas Kouris
START Program Manager

Attachments: A - Site Maps
B - Photodocumentation
C - Disposition of Waste Table

cc: Brad Stimple, U.S. EPA On-Scene Coordinator
Site File

Attachment A

Site Maps



Quadrangle Location



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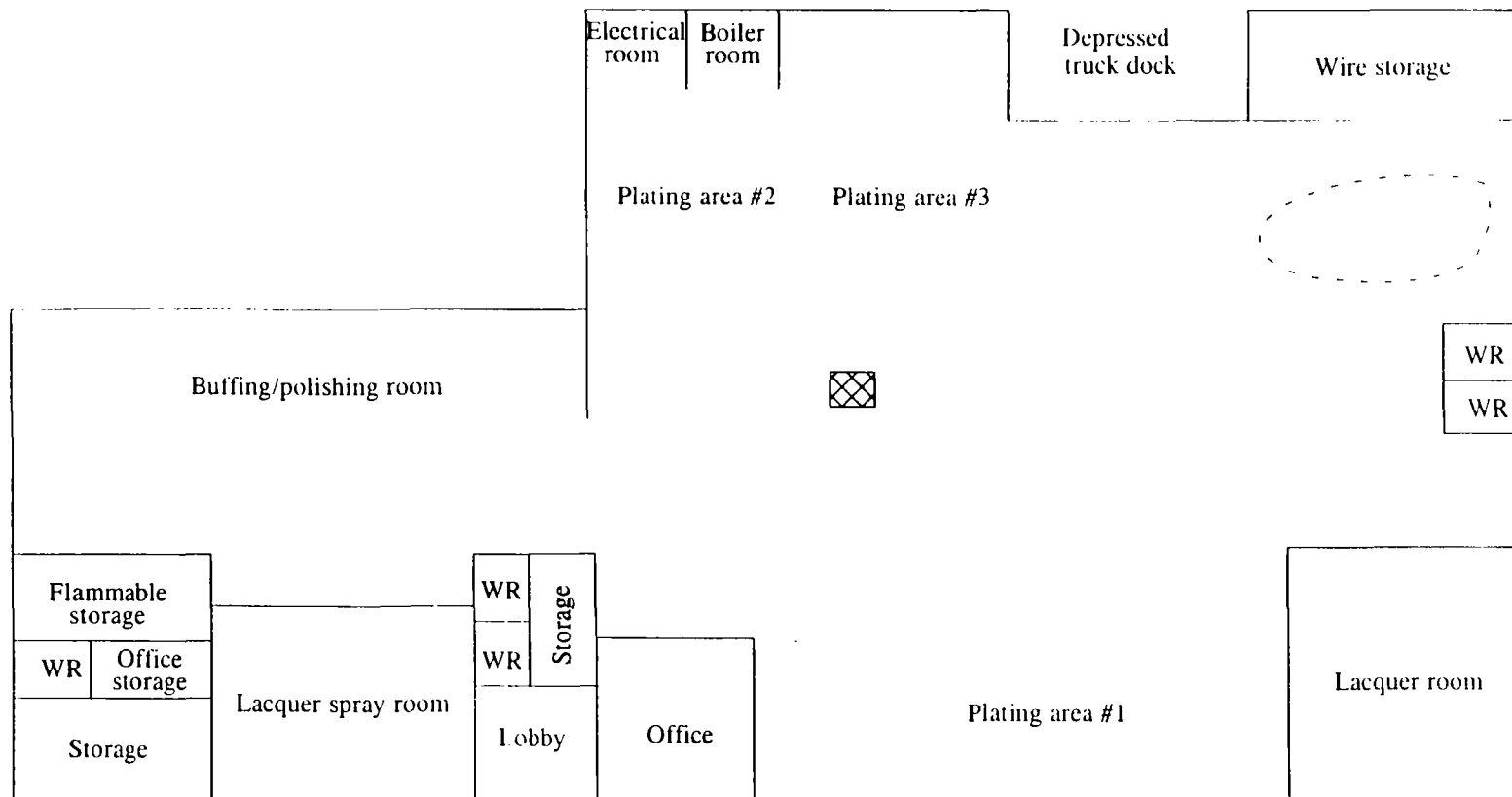
Superfund Technical Assessment and Response Team

Region 5

33 North Dearborn Street, Suite 900, Chicago, Illinois 60602



TITLE	Site Location Map	FIGURE	1
SITE	Moschiano Plating	SCALE	1:24,000
CITY	Chicago	STATE	Illinois
TDD	S05-9709-002	DATE	1962
SOURCE	USGS 7.5 Minute Topographic Series Chicago Loop Quadrangle, IL	REVISED	1978

Mozart Avenue



Lake Street

LEGEND

- WR Washroom
-  MWRDGC sampling unit
-  Original hole in roof



ecology and environment, inc.

Region 5 - Superfund Technical Assessment and Response Team
33 North Dearborn Street, Suite 900, Chicago, Illinois 60602

TITLE	Site Features Map	FIGURE	2
SITE	Moschiano Plating	SCALE	Not to scale
CITY	Chicago	TDD	S05-9709-002
SOURCE	Ecology and Environment, Inc.	DATE	1997
		REVISED	1998

Attachment B

Photodocumentation



SITE: Moschiano Plating Company

DATE: October 13, 1997

TIME: 1343

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: Northwest room prior to cleanup.



SITE: Moschiano Plating Company

DATE: October 13, 1997

TIME: 1347

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Southwest room prior to cleanup.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: South room prior to cleanup.

DATE: October 13, 1997
DIRECTION: Northeast

TIME: 1348
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Northwest yard prior to cleanup.

DATE: October 13, 1997
DIRECTION: Southeast

TIME: 1616
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

DATE: October 14, 1997

TIME: 0852

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Drums in center of plating area, vats in background.



SITE: Moschiano Plating Company

DATE: October 16, 1997

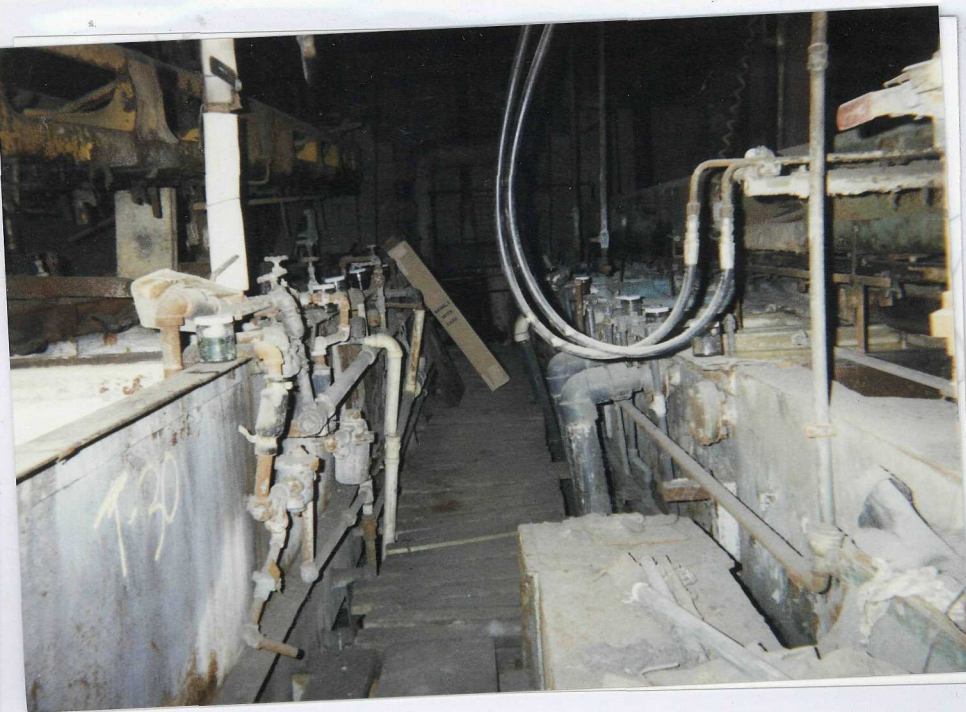
TIME: 0810

LOCATION: Chicago, IL

DIRECTION: South

PHOTOGRAPHER: D. Sinars

SUBJECT: Drums in northeast section of plating area.



SITE: Moschiano Plating Company

DATE: October 20, 1997

TIME: 1710

LOCATION: Chicago, IL

DIRECTION: North

PHOTOGRAPHER: D. Sinars

SUBJECT: Sample jars on sampled vats in automatic plating line.



SITE: Moschiano Plating Company

DATE: October 20, 1997

TIME: 1715

LOCATION: Chicago, IL

DIRECTION: South

PHOTOGRAPHER: D. Sinars

SUBJECT: Technician sampling staged drums.



SITE: Moschiano Plating Company

DATE: October 23, 1997

TIME: 0900

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Technicians disassemble catwalk prior to placing in hazardous rolloff box.



SITE: Moschiano Plating Company

DATE: October 23, 1997

TIME: 0905

LOCATION: Chicago, IL

DIRECTION: North

PHOTOGRAPHER: D. Sinars

SUBJECT: Plating solids from underneath catwalk.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: South side of site (near CTA station) minutes after fire began.

DATE: October 27, 1997
DIRECTION: East

TIME: 1205
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Fire on roof above plating area.

DATE: October 27, 1997
DIRECTION: Southeast

TIME: 1208
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

DATE: October 27, 1997

TIME: 1252

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: Firefighters spraying building from below CTA tracks on Lake Street.



SITE: Moschiano Plating Company

DATE: October 27, 1997

TIME: 1315

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Water flowing out of door on Lake Street.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Water flowing out of door on Mozart Street (note green tint).

DATE: October 27, 1997
DIRECTION: East

TIME: 1330
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: View of water being sprayed into plating area from Mozart Street.

DATE: October 27, 1997
DIRECTION: North

TIME: 1345
PHOTOGRAPHER: K. Meyer



SITE: Moschiano Plating Company

DATE: October 27, 1997

TIME: 1356

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: View from CTA station of plating area and spraying from apartment building.



SITE: Moschiano Plating Company

DATE: October 27, 1997

TIME: 1436

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: South and central plating area with fire department assessing building and soaking hot spots.



SITE: Moschiano Plating Company

DATE: October 27, 1997

TIME: 1425

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: North and central plating area with fire department assessing building and soaking hot spots.



SITE: Moschiano Plating Company

DATE: October 28, 1997

TIME: 0730

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Steel debris and vats the morning after the fire.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Collapsed roof on drums.

DATE: October 28, 1997
DIRECTION: Southwest

TIME: 0735
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Drum staging area; poly drums melted-down in background.

DATE: October 29, 1997
DIRECTION: Southwest

TIME: 0922
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

LOCATION: Chicago, IL

SUBJECT: Fire debris and liquid on floor.

DATE: October 29, 1997

DIRECTION: West

TIME: 0944

PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

LOCATION: Chicago, IL

SUBJECT: CMC operator taking down wall to gain access to plating area.

DATE: October 28, 1997

DIRECTION: East

TIME: 1000

PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

DATE: October 29, 1997

TIME: 1423

LOCATION: Chicago, IL

DIRECTION: Northwest

PHOTOGRAPHER: D. Sinars

SUBJECT: Shears clearing debris in northwest plating area.



SITE: Moschiano Plating Company

DATE: October 30, 1997

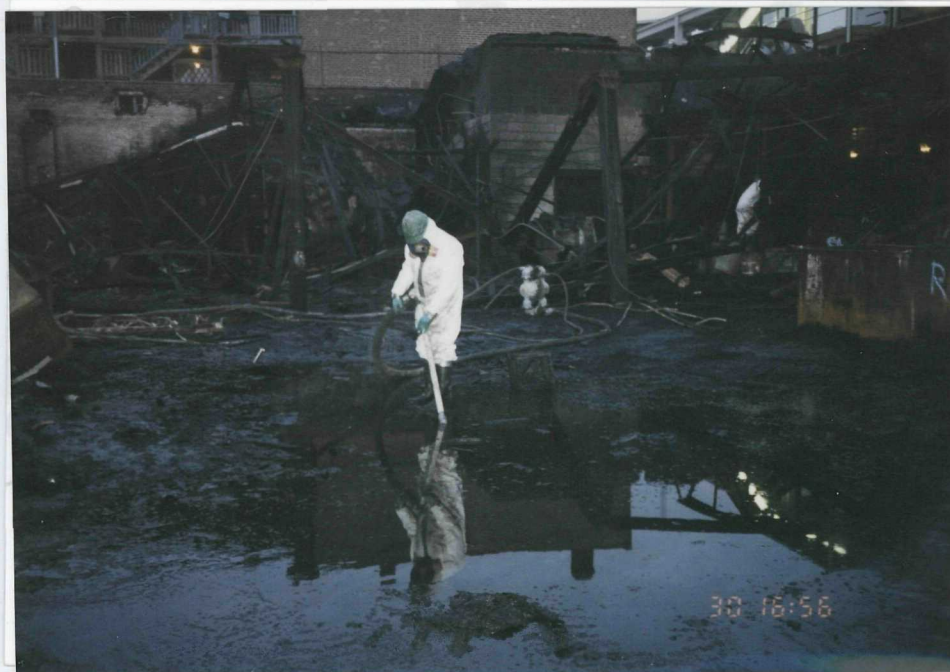
TIME: 1656

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: View of south side of plating area: START re-identified and labeled all remaining waste.



SITE: Moschiano Plating Company

DATE: October 30, 1997

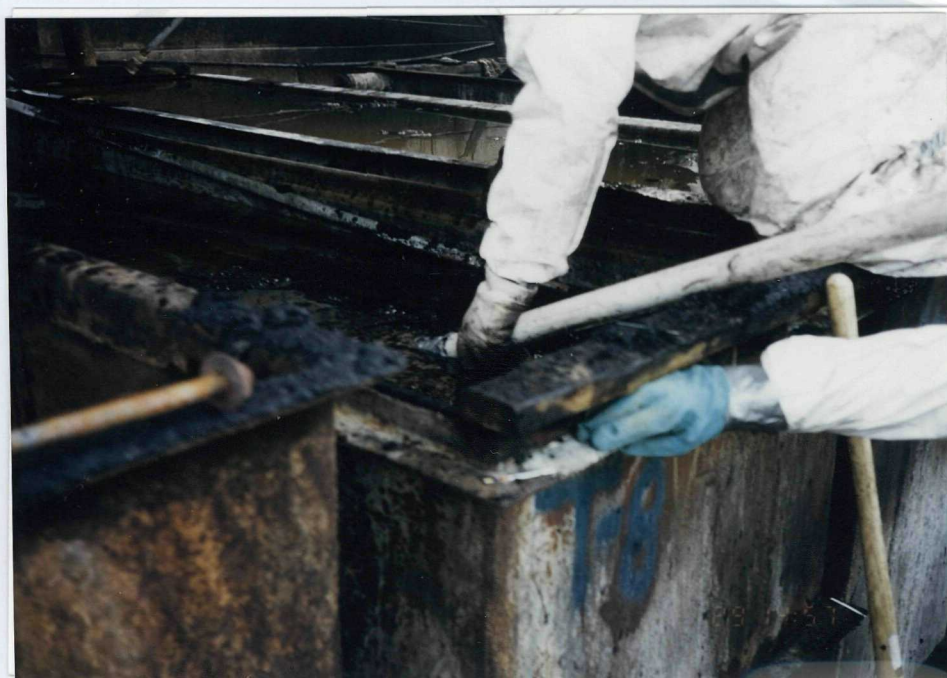
TIME: 1656

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: Technician pumping remaining liquid from the floor.



SITE: Moschiano Plating Company

DATE: October 29, 1997

TIME: 1457

LOCATION: Chicago, IL

DIRECTION: Southwest

PHOTOGRAPHER: D. Sinars

SUBJECT: Pumping cyanide liquid from vat to vacuum truck.



SITE: Moschiano Plating Company

DATE: October 30, 1997

TIME: 1011

LOCATION: Chicago, IL

DIRECTION: Southwest

PHOTOGRAPHER: D. Sinars

SUBJECT: Vacuum truck on Lake Street collecting acid liquid.



SITE: Moschiano Plating Company

DATE: November 4, 1997

TIME: 0944

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Vacuum truck near loading dock collecting cyanide liquid from temporary tank and drums.



SITE: Moschiano Plating Company

DATE: November 3, 1997

TIME: 1453

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: Loading overpacked flammable liquid drums with bobcat.



SITE: Moschiano Plating Company

DATE: October 31, 1997

TIME: 1505

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: South side of building on Lake Street; barricades and banner guard block off the area.



SITE: Moschiano Plating Company

DATE: November 6, 1997

TIME: 1436

LOCATION: Chicago, IL

DIRECTION: Northwest

PHOTOGRAPHER: D. Sinars

SUBJECT: View of support trailers and frac tank from CTA station.



SITE: Moschiano Plating Company

DATE: November 4, 1997

TIME: 0924

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: View of decon area sectioned off with visqueen and frame.



SITE: Moschiano Plating Company

DATE: November 4, 1997

TIME: 0928

LOCATION: Chicago, IL

DIRECTION: Southwest

PHOTOGRAPHER: D. Sinars

SUBJECT: Charred bobcat and compressor moved to north yard.



SITE: Moschiano Plating Company

DATE: November 1, 1997

TIME: 1108

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: Shears crushing an empty vat on the debris pile.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Technicians clearing floor of debris.

DATE: November 2, 1997
DIRECTION: East

TIME: 1147
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Operators using heavy equipment to clear debris.

DATE: November 4, 1997
DIRECTION: Northeast

TIME: 0815
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

DATE: November 4, 1997

TIME: 0922

LOCATION: Chicago, IL

DIRECTION: Southwest

PHOTOGRAPHER: D. Sinars

SUBJECT: Bobcat scraping floor and consolidating debris pile.



SITE: Moschiano Plating Company

DATE: November 1, 1997

TIME: 1108

LOCATION: Chicago, IL

DIRECTION: North

PHOTOGRAPHER: D. Sinars

SUBJECT: Technicians cleaning out cyanide solid from vat and loading into drums.



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Floor of plating room with cyanide solid drums.

DATE: November 5, 1997
DIRECTION: East

TIME: 0852
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company
LOCATION: Chicago, IL
SUBJECT: Loading cyanide solid drums with bobcat.

DATE: November 6, 1997
DIRECTION: Northeast

TIME: 1230
PHOTOGRAPHER: D. Sinars



SITE: Moschiano Plating Company

DATE: November 6, 1997

TIME: 1435

LOCATION: Chicago, IL

DIRECTION: North

PHOTOGRAPHER: D. Sinars

SUBJECT: View from CTA station into plating area where technicians pressure-wash the floor.



SITE: Moschiano Plating Company

DATE: November 5, 1997

TIME: 1616

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: Technician pressure-washing inside frac tank.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1645

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: Technician cleaning inside frac tank.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1001

LOCATION: Chicago, IL

DIRECTION: Southeast

PHOTOGRAPHER: D. Sinars

SUBJECT: View of southwest room upon completion.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1000

LOCATION: Chicago, IL

DIRECTION: Northwest

PHOTOGRAPHER: D. Sinars

SUBJECT: View of west-central room where START conducted hazard categorization testing.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1002

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: View of south room.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1030

LOCATION: Chicago, IL

DIRECTION: Northeast

PHOTOGRAPHER: D. Sinars

SUBJECT: View of northwest yard upon completion.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1535

LOCATION: Chicago, IL

DIRECTION: West

PHOTOGRAPHER: D. Sinars

SUBJECT: View of plating area following pressure-washing.



SITE: Moschiano Plating Company

DATE: November 7, 1997

TIME: 1002

LOCATION: Chicago, IL

DIRECTION: East

PHOTOGRAPHER: D. Sinars

SUBJECT: View of plating area upon completion of decon.

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Attachment C

Disposition of Waste Table

<p align="center">Table 1</p> <p align="center">DISPOSITION OF WASTE</p> <p align="center">MOSCHIANO PLATING</p> <p align="center">CHICAGO, ILLINOIS</p> <p align="center">OCTOBER 13 THROUGH NOVEMBER 7, 1997</p>					
Wastestream	Medium	Quantity	Containment	Treatment	Disposal
Hazardous debris	Solid	278 cubic yards	Rolloff box, bulked	Off-site	The EQ Company Belleville, MI
Waste acid	Liquid	4,700 gallons	Tank truck	Off-site	CWM Vickory, OH
Waste caustic	Liquid	2,000 gallons	Tank truck	Off-site	CWM Vickory, OH
Flammable	Liquid	600 gallons (13 drums)	Drums	Off-site	WRR Eau Claire, WI
Plating sludge	Solid	18 cubic yards	Rolloff box, bulked	Off-site	The EQ Company Belleville, MI
Cyanide	Solid	18,000 pounds (38 drums)	Drums	Off-site	Phillip Environmental Detroit, MI
Cyanide	Liquid	3,650 gallons	Tank truck	Off-site	Heritage Environmental Indianapolis, IN
Heavy metal contaminated wastewater	Liquid	35,000 gallons	Tank truck	Off-site	CWM Vickory, OH

Note: Quantities are approximate.